

ELECTRONICS & DEFENSE

# NAVKITE™

NAVIGATE WITH RESILIENCE





# NAVKITE™

**NAVKITE™** is the latest resilient Positioning, Navigation and Timing (PNT) solution for military forces, especially in GNSS-denied environments. It ensures spoofing or jamming detection capabilities as well as autonomous timing and positioning capabilities.

Based on the combination of an inertial navigation unit (GEONYX™ M) with a resilient time and frequency source (VersaSync), NAVKITE provides accurate Position, Navigation and Timing (PNT) data and guarantees a secure and precise location.

*Positioning, Navigation and Timing (PNT) data must be continuous, accurate and reliable even under harsh conditions and/or environments.*

- **Available in SP, HP and XP Performance**
- **Fully integrated and autonomous navigation solution**
- **Operating in GNSS denied environment**
- **GNSS data integrity guaranteed**

# TECHNICAL SPECIFICATIONS

## Optimized architecture

- Size (W x D x H): 538 x 415 x 300 mm
- Weight: 29 kg (including batteries)
- Protection: IP67
- Shock: 20 g, 11 ms following MIL-STD 810G standard, method 516.7 Procedure 1
- System autonomy: 12 hours on batteries
- Gyro technology: HRG Crystal™

## Built in option

- Geonyx in SP, HP, and XP performance
- OCXO High Performance

## Flexible Interfaces

- Embedded GNSS receiver
- RS422
- Ethernet

## GNSS support (Navigation)

- GPS
- GLONASS

## European in-house technology

Subject to French export control authorization

ITAR Free

## FRONT PANEL

Interface	Type of Data
<b>Switches</b>	1 power switch DC 1 power switch Geonyx-M 1 power switch VersaSync
<b>Battery Charger</b>	Power for charging battery
<b>I/O</b>	RS422, Navigation message, External GNSS receiver, Loch
<b>Network</b>	System configuration (VersaSync, Geonyx-M) Status message Monitoring



**IDM Monitoring**  
Interference Detection & Mitigation  
(Jamming & Spoofing)

## Geonix™ M

### Operational Efficiency

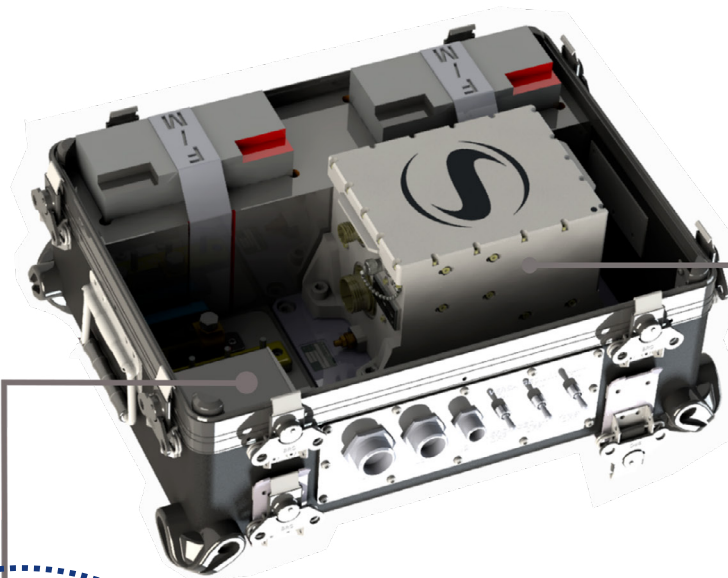
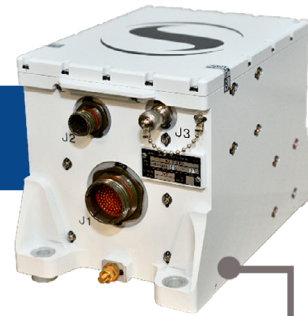
High Precision Navigation & Pointing

### PNT Resilience

Autonomous Alignment without GNSS

### Robustness and Reliability

Optimized SWaP - MIL-STD-810



## VersaSync

### PNT Resilience

GNSS Spoofing/Jamming Detection

### Flexible

GNSS Master Clock and NTP/PTP Time Server

### Internal Timing Oscillators

OCXO

### Compact and Ruggedized

Low SWaP, Tested to MIL-STD-810G CH1



## A PERFECT FIT FOR GNSS-DENIED ENVIRONMENTS

*The VersaSync allows GNSS jamming/spoofing monitoring and disables Geonyx™ M hybridization and its own internal oscillator in case of interferences detection.*

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BY TRUST**

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[safran-navigation-timing.com](https://safran-navigation-timing.com)

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October 26, 2023